



Toase-ehe Park Sanati Gohar Ofogh
Petrochemical Co.
**CONCEPTUAL, BASIC and DETAIL DESIGN
ENGINEERING OF STYRENE PARK OFFSITE**



Document Title: Packing, Shipping and marking procedure

Document No.: EI027-FPA-VD-GE-PCJ-006





Rev. R0

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STYRENE PARK OFFSITE

Document Title:
Packing, Shipping and marking procedure

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Rev.	Issued Date	DESCRIPTION	PREPARED	CHECKED	APPROVED

 	<p align="center">Toase-ehe Park Sanati Gohar Ofogh Petrochemical Co.</p> <p align="center">CONCEPTUAL, BASIC and DETAIL DESIGN ENGINEERING OF STYRENE PARK OFFSITE</p>		  Farnikan Engineered Solutions	
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REVISION RECORD SHEET

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1. Scope

This Specification covers the minimum requirements for packaging, packing, marking and shipment of supplies and equipment for delivery to provide full protection against physical and mechanical damage during transit and multiple handling and possible long periods under adverse storage condition for Toase-ehe Park Sanati Gohar Ofogh Petrochemical.

2. Terms and Definitions

Owner: Toase-ehe Park Sanati Gohar Ofogh Petrochemical Co.

Vendor: Farnikan Company



3. Marking

All equipment's shall be marked for identification and preparation for shipment. Spare parts will be shipped and shall be identified with a metal tag. The tag shall be securely wired to each item with stainless steel wire. Also, it shall include the equipment tag number to which each piece corresponds.

4. Packing

Packing means to efficiently and effectively protect goods, in supplier's time schedule. Vendor is responsible for recommendations for storage of the supplies according to site conditions, which meanwhile is full responsible for any loss or damage caused through wrong marking there. Packing shall be sufficient to withstand, without irritation, rough handling during loading/unloading, sea and/or inland transport, and handling during transit, and storage depending on their type. Supplies are to be protected against both mechanical damage (shocks, rupture, breakage, loss or pilfering) and corrosion (rain, salty atmosphere, etc.).

In case, where the customer has specified their packing requirements which have been agreed by the company, then Farnikan Company follows the requirement as per customers drawing, sketch or specifications. If not, the packing procedure will be followed as detailed below.

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Flange covers shall be 6 mm steel plate attached with a minimum of four (4) full diameter bolts. A gasket shall be provided between the plate and flange. All other openings shall be plugged to prevent damage during shipment.

Where support saddles are required for the transportation of products such as vertical vessels they shall be designed and provided by the supplier incorporating the following:

Saddles shall be designed for the purpose of transporting the products.

Where appropriate, steel wrapper plates shall be supplied to distribute the load and protect the products.

Saddles shall be fitted with lifting lugs and supplied with a steel rope or flat metal strapping to secure the saddle to the products during lifting or transportation.

A packing medium that has no detrimental effect to the products treatment shall be provided for placement between products and saddle, securing ropes and/or straps.

Subject to the transport configuration and design requirements, saddles may be either of steel construction.



Where bolsters and chock blocks are required, they shall be contoured to suit the outside curvature of the products to ensure adequate and uniform distribution of loadings over the surface of the products to be supported.

All loose accessories such as stud bolts, gaskets, plugs, tubes shall be packed and labeled in wooden boxes.

All movable parts such as instruments shall be temporarily packed and/or blocked (by wood sub-bracing) to prevent damage during shipment. All equipment shall be suitable braced or cushioned necessary to prevent distortion during transportation.

All threads of bolts including exposed parts shall be coated with a metallic base waterproof lubricant to prevent galling in use and aqueous corrosion during testing, shipping and storage.

Test holes in reinforcing pads shall be left open for use as tell-tale holes. They shall be filled with grease after hydrostatic test and prior to shipment.

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Equipment shall be shipped completely assembled and shall be clearly identified by painting or dye stenciling with equipment number in a conspicuous location on the shell or head.

Vendor (FPA) commissioning spare parts, two years' spare parts and special tools (if any) shall be packed separately.

The goods shall be dried, cleaned internally and externally, removed from all welded spatter, scale, rust, cuttings, fittings, etc., as well as any all-foreign material.

Unless otherwise specified, after hydro testing, operation, and/or performance test, all fluids, i.e., lubricating oil, fuel oil water, etc., shall be completely drained from all pipelines, tanks, vessels, jacketing, piping, etc., and wiped or blown dry.

The materials shall be protected against corrosion during transit by coating with a recognized rust preventative. Any bolts shall be prevented against rust. Also, threads shall be mechanically protected.

Piping material shall be protected against corrosion externally and internally detailed packing procedure, especially for the parts and components in site erection which shall be approved by the Purchaser.






4.1. Applicable packing style

4.1.1. Wooden framed box or crate

The construction of wooden framed boxes or crates shall be based on Attachment #1. Wooden framed box and crate shall be made from lumber.

4.2.2. Skid mounted construction:

Large sized equipment's, such as columns, Towers, Drums, Vessels, and Reactors shall be mounted on skids with steel wire ropes or flat steel bars.

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5. Loading

In case, where the customer has specified the loading sketch, FARNIKAN COMPANY follows the requirement as per customers drawing, sketch or specifications. If not FARNIKAN COMPANY will consider specific design for temporary saddles for vertical items while trunnion calculations have been implemented in equipment's specific "Lifting Calculation Book" documents.

6. Shipping

Unless otherwise specifically requested, the supplier shall always ensure that the products are to the address as shown in the contract and individual packages are marked where an order line has multiple final delivery locations, the products shall be packaged and marked separately to suit. A shipping unit may be defined as: carton, crate, box, steel section, pallet and etc.

7. Safety

The Supplier shall ensure all products are packed to avoid personal injury and damage to equipment and property.



Supplies are to be protected against both mechanical damage (shocks, rupture, breakage, loss or pilfering) and corrosion.

Silica gel or other approved desiccant shall be strapped inside the shroud, but shall not come into contact with the paint work.

8. Packing list distribution

Two (2) copies of the packing list in waterproof plastic envelope must be securely nailed under a steel sheet on the outer surface of the first package of the batch with

the associated detailed item list corresponding to the package, as per indication in ATTACHMENT#2.

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Two (2) copies of the detailed item list shall be placed in waterproof plastic envelope inside of each package. Another copy in a waterproof plastic envelope shall be placed outside of the package under a steel sheet.





Packaging lists shall contain no less than the following information

- Contract or P.O. number.
- Tag/Equipment number.
- Supplier's name.
- Contract item number.
- Description of contents.
- Total packages and package number.
- Supplier reference number.
- Package dimensions, gross and net weights.
- Destination address.

Freight containers shall have delivery dockets and packing lists placed in weather proof envelopes and attached to both the internal wall and to the outside of the non-opening door. Packing lists may be placed in package one of multiple packages when the outer surface is marked "Packing List Enclosed". Packing lists attached to the outside of a package must always be placed within a waterproof envelope.

9. Packing inspection

The packing process / procedure shall be inspected by the client, or an authorized third-party inspector appointed by the client during all stages of packing work.

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Vendor grant inspector(s) for PSI (Pre-Shipment inspection) to access to vendor's shops or his sub-supplier's shops. Besides, vendor assist inspector or purchaser to perform PSI and shall follow the Inspector's instructions for performance of PSI.

10. Preparation for shipment

10.1. All water, oil or other liquids used for cleaning or hydrostatic testing shall be completely drained from all units before shipment. The unit shall be dried when water is used for testing.

10.2. All equipment's shall be shipped in the "as test" condition, so that no further hydrostatic testing needs to be performed after installation.





10.3. Test holes in reinforcing pads shall be left open for use as tell-tale holes. They shall be filled with grease after hydrostatic test and prior to shipment. However, vent holes shall be filled by welding.

10.4. Pre-shipment inspection of the packing shall be carried out before any shipment by an approved third-party inspectorate.

11. Attachments

11.1 Attachment#1.....Wooden Framed Box or Crate

11.2 Attachment#2..... Content Packing List Form

 	<p style="text-align: center;">Toase-ehe Park Sanati Gohar Ofogh Petrochemical Co.</p> <p style="text-align: center;">CONCEPTUAL, BASIC and DETAIL DESIGN ENGINEERING OF STYRENE PARK OFFSITE</p>		  Farnikan Engineered Solutions	
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Attachment#1: Wooden framed Box or Crate CASE



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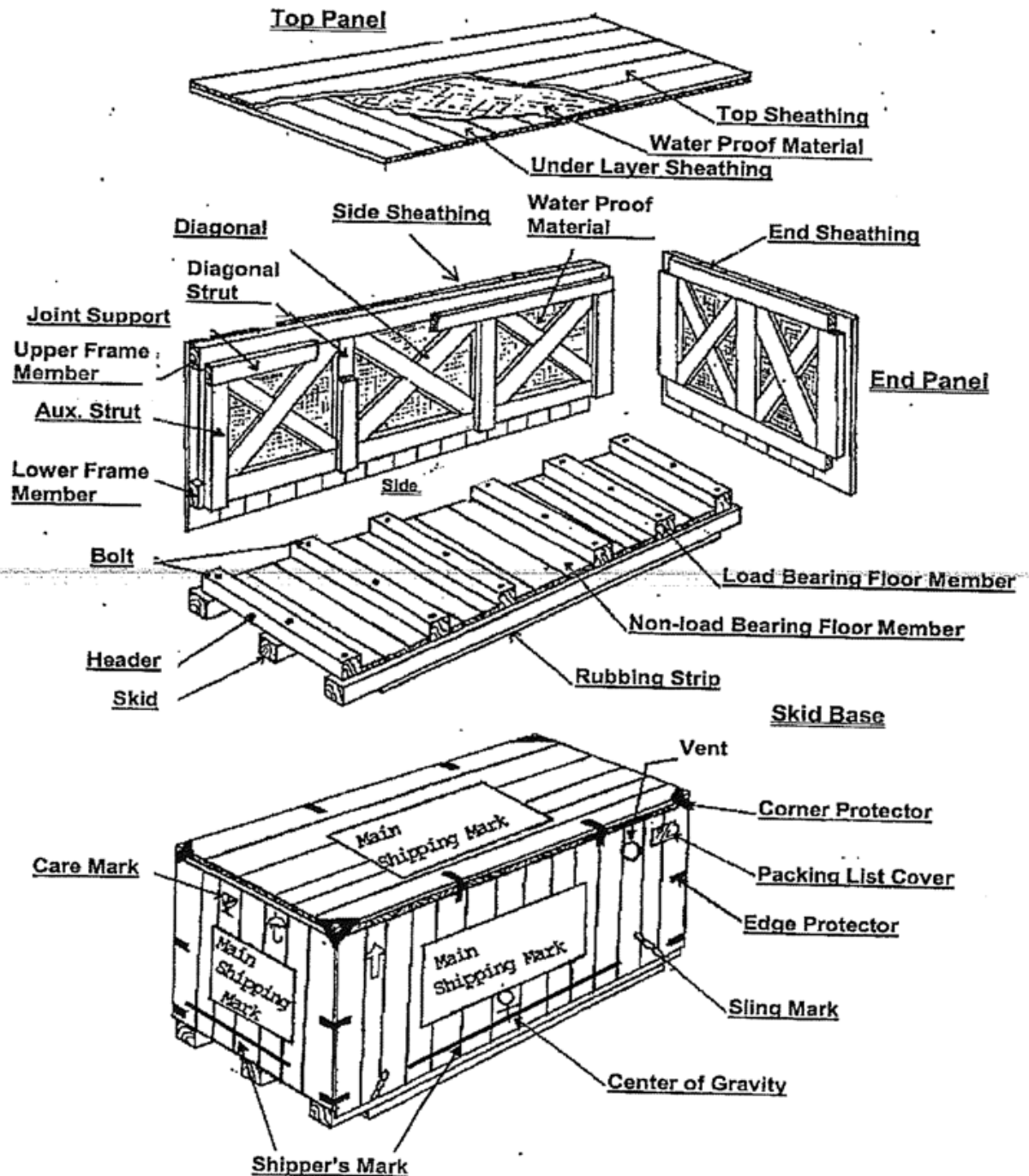
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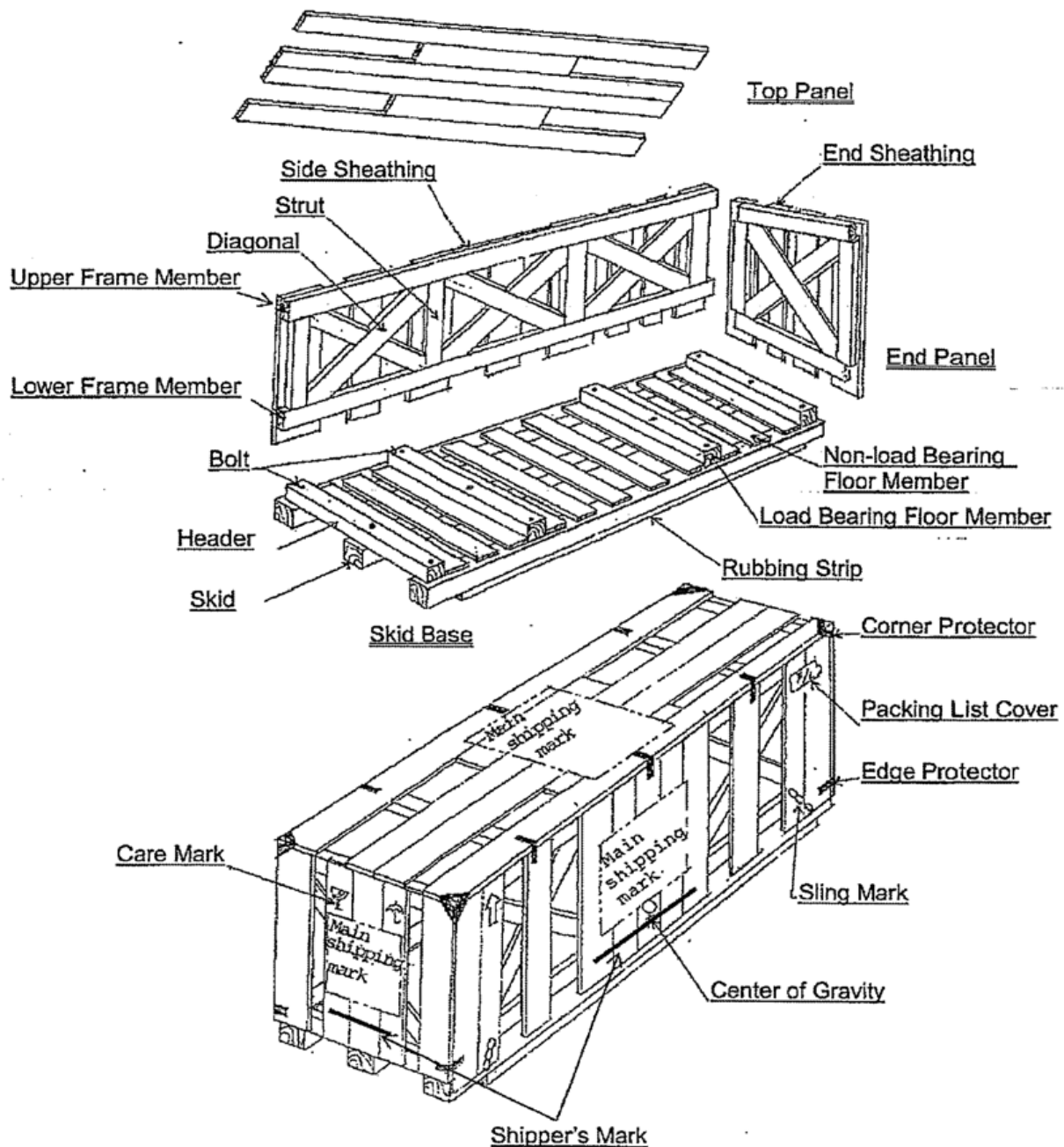
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Attachment#1: Wooden framed box or Crate



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Attachment#2: Packing List Format

 		Project: CONCEPTUAL, BASIC and DETAIL DESIGN ENGINEERING OF STYRENE PARK OFFSITE				  					
Contract No.: XXXXXXXXX		Packing List				Project No.: XX000					
Date: 00-XXX-00		Project Document No.: FPA-PPC-XX000-LST-XXX-00				Rev.: 0 Page: 1 of 1					
Vendor: Origin: Shiraz, Farnikan Pars Avin Packing List No.: 0					Purchaser: XXXXXXXXXXXXXXXX Destination: XXXXXXXXXXXXXXXX Package QTY: 0						
Row	Package No.	Package Type *	Tag No.	Description	QTY	Net Weight (kg)	Gross Weight (kg)	Dimension (mm)			Remark
								L	W	H	
Total					0	0.00	0.00				
PPC Dept.:				QC Dept.:				3rd Party Inspector			
Name:				Name:				Name:			
Date:				Date:				Date:			
Sign:				Sign:				Sign:			
* P=Pallet / WB=Wooden Box / MB=Metal Box / CB=Carton Box / G=Gunny / BP=Bubble Plastic / PC=Plastic / CP=Cellophane Plastic / PB=Plastic Bag / SS=Steel Strap / SC=Steel Cover / F=Foam / MG=Metal Gallon / L=Loose											
Address: Farnikan, N17, Sanat 6, SEEZ Shiraz, Iran Contact Info: www.farnikan.com / info@farnikan.com / +98-71-91005567								Doc. No.: PPC-FRM-00-001 Rev. Date: 04.02.05-00			